

XTREME POWER CONVERSION J90 // APC SMT1500RM1UC COMPARISON

The Xtreme Power J90 and APC SMT1500RM1UC are both 1U rackmount UPS systems for edge, IT, and network use. However, the J90 offers key advantages in battery tech, runtime, size, and compliance—making it a next-gen solution for modern power needs.



1.5kVA UPS COMPARISON

	Xtreme Power J90 Online Lithium-ion UPS	APC SMT1500RM1UC VRLA UPS	J90 Advantage
Battery Chemistry	Lithium Iron Phosphate (LiFePO ₄) with integrated BMS	Valve-Regulated Lead Acid (VRLA)	Longer lifespan, More Runtime, Higher Temperatures, Less Space, Lighter Weight.
Capacity	1500W/1350W	1500W/1000W	J90 UPS supports 35% more real power.
Topology	Online Double Conversion	Line Interactive	True online protection from all power anomalies.
Individually controllable receptacles	4 Individually controllable receptacles (with Optional Web/SNMP Card)	None	Remote device reboot and scheduling enhances uptime.
Dimensions & Weight	17.2" x 20" x 1.7" / 27.8 lbs	17" x 26.2 x 1.73" / 54 lbs	Smaller and nearly half the weight—easier to install and manage.
High Temperature Operation	Up to 50°C (122°F)	Up to 40°C (104°F)	Better suited for hot, dense IT closets and harsh environments.
Battery Runtimes (full load)	Up to 7 minutes	Up to 5 minutes	Longer runtime in a more compact form factor.
Battery Life	Up to 10 years	3-5 years	Less maintenance, fewer replacements, lower TCO.
TAA Compliant	Yes	No	Eligible for federal and public sector projects.
Warranty	6-years	3-years UPS / 2-year Battery	Longer coverage and reduced lifetime maintenance cost.